

Title (en)  
ELECTRIC PUMP UNIT

Title (de)  
ELEKTROPUMPENEINHEIT

Title (fr)  
UNITÉ DE POMPE ÉLECTRIQUE

Publication  
**EP 2336565 A1 20110622 (EN)**

Application  
**EP 09820594 A 20091014**

Priority  

- JP 2009067773 W 20091014
- JP 2008264791 A 20081014
- JP 2008286668 A 20081107
- JP 2009084436 A 20090331

Abstract (en)  
There is provided an electric pump unit with a further reduction in size, weight and cost thereof. An electric pump unit includes a motor rotor 20 which extends radially outwards from one end of a pump driving motor shaft 16 supported by a bearing unit 15 within a unit housing 1 and surrounds an outer circumference of the bearing unit 15 and a motor stator 22 fixedly provided in the unit housing 1. An axial position of a center of gravity of a rotary portion including the motor shaft 16 and the motor rotor 20 falls within an axial range of the bearing unit 15.

IPC 8 full level  
**F04B 53/00** (2006.01); **F04C 2/10** (2006.01); **F04C 15/00** (2006.01)

CPC (source: EP US)  
**F01C 21/02** (2013.01 - EP US); **F04C 11/008** (2013.01 - EP US); **F04C 15/008** (2013.01 - EP US); **H02K 7/075** (2013.01 - EP US); **H02K 7/085** (2013.01 - EP US); **F04C 2/102** (2013.01 - EP US); **F04C 2240/30** (2013.01 - EP US); **F04C 2240/40** (2013.01 - EP US); **F04C 2240/50** (2013.01 - EP US); **F04C 2240/51** (2013.01 - EP US); **F04C 2240/60** (2013.01 - EP US); **F04C 2240/81** (2013.01 - EP US); **H02K 7/14** (2013.01 - EP US); **H02K 11/33** (2016.01 - EP US)

Cited by  
DE102019118708A1; EP2610492A1; DE102016121237B4; CN111577595A; EP3101784A1; DE102019118697A1; US9145876B2; DE102014215756A1; US11092153B2; WO2019196983A1; WO2019174773A1; WO2018082859A1; WO2018033275A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2336565 A1 20110622**; **EP 2336565 A4 20171011**; **EP 2336565 B1 20191009**; CN 102177343 A 20110907; CN 102177343 B 20140402; US 2011194954 A1 20110811; US 8790095 B2 20140729; WO 2010044416 A1 20100422

DOCDB simple family (application)  
**EP 09820594 A 20091014**; CN 200980140311 A 20091014; JP 2009067773 W 20091014; US 99836209 A 20091014